

June 15, 2011

Mr. Pedro Salas, Manager
Corporate Regulatory Affairs
AREVA NP Inc.
3315 Old Forest Road
P.O. Box 10395
Lynchburg, VA 24506-0935

SUBJECT: AUDIT REPORT FOR ATRIUM-11 FUEL DESIGN CRITICAL HEAT FLUX
(DRY-OUT) TESTING

Dear Mr. Salas:

The U.S. Nuclear Regulatory Commission (NRC) staff visited the AREVA NP, Inc. (AREVA) facility in Karlstein, Germany from January 29 to February 4, 2011. The purpose of this was to observe critical heat flux (CHF) testing of AREVA's new fuel design for boiling water reactors (BWRs). This testing is part of a series of tests being conducted by AREVA to support development of a topical report describing the CHF correlation to be used for the thermal-hydraulic design of the ATRIUM-11 fuel design. AREVA expects to submit this testing for NRC review. Enclosed is the audit report for this visit.

Pursuant to Section 2.390 of Title 10 of the *Code of Federal Regulations* (10 CFR), we believe that the enclosed audit report may contain proprietary information. However, we have not marked the specific proprietary information and are providing you with the opportunity to comment on the proprietary aspects. If you believe that any information in the enclosure is proprietary, please identify such information line-by-line and define the basis pursuant to the criteria of 10 CFR 2.390. Twenty working days are provided for you to comment on the proprietary aspects contained in the audit report. The final audit report will be issued after receiving your comments and a non-proprietary version will be made publicly available.

The NRC staff appreciates the resources made available by your staff during the audit. If you have any questions, please contact me at 301-415-1053 or Holly.Cruz@nrc.gov.

Sincerely,

/RA/

Holly D. Cruz, Project Manager
Licensing Processes Branch
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Project No. 728

Enclosure: Audit Report

NOTICE: The Enclosure transmitted herewith contains proprietary information. When separated from the Enclosure, this document is decontrolled.

Mr. Pedro Salas, Manager
Corporate Regulatory Affairs
AREVA NP Inc.
3315 Old Forest Road
P.O. Box 10395
Lynchburg, VA 24506-0935

SUBJECT: AUDIT REPORT FOR ATRIUM-11 FUEL DESIGN CRITICAL HEAT FLUX
(DRY-OUT) TESTING

Dear Mr. Salas:

The U.S. Nuclear Regulatory Commission (NRC) staff visited the AREVA NP, Inc. (AREVA) facility in Karlstein, Germany from January 29 to February 4, 2011. The purpose of this was to observe critical heat flux (CHF) testing of AREVA's new fuel design for boiling water reactors (BWRs). This testing is part of a series of tests being conducted by AREVA to support development of a topical report describing the CHF correlation to be used for the thermal-hydraulic design of the ATRIUM-11 fuel design. AREVA expects to submit this testing for NRC review. Enclosed is the audit report for this visit.

Pursuant to Section 2.390 of Title 10 of the *Code of Federal Regulations* (10 CFR), we believe that the enclosed audit report may contain proprietary information. However, we have not marked the specific proprietary information and are providing you with the opportunity to comment on the proprietary aspects. If you believe that any information in the enclosure is proprietary, please identify such information line-by-line and define the basis pursuant to the criteria of 10 CFR 2.390. Twenty working days are provided for you to comment on the proprietary aspects contained in the audit report. The final audit report will be issued after receiving your comments and a non-proprietary version will be made publicly available.

The NRC staff appreciates the resources made available by your staff during the audit. If you have any questions, please contact me at 301-415-1053 or Holly.Cruz@nrc.gov.

Sincerely,

/RA/

Holly D. Cruz, Project Manager
Licensing Processes Branch
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Project No. 728

Enclosure: Audit Report

DISTRUBUTION:

See Attached Page

Accession Nos.:

Package: ML11097A015

Letter: ML11097A011

Enclosure: ML11097A012

NRR-106

OFFICE	PLPB/GE	PLPB/PM	PLPB/LA	SNPB/BC	PLPB/BC
NAME	ACalero	HCruz	DBaxley	AMendiola	JJolicoeur
DATE	4/8/11	6/8/11	5/5/11	6/8/11	6/15/11

OFFICIAL RECORD COPY

Letter to P. Salas from Holly D. Cruz dated June 15, 2011

DISTRIBUTION:

Non-PUBLIC (Enclosure)

PUBLIC (Letter Only)

PLPB Reading File

RidsNrrAdro

RidsNrrDpr

RidsNrrDprPlpb

RidsNrrLADBaxley

RidsOpaMail

RidsOgcMailCenter

RidsAcrcAcnwMailCenter

RidsNrrDss

ACalero

HCruz

JJolicoeur

AAttard

AMendiola